

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.

Branch: Civil Engineering

Course Code: 20CV5PEDMM

Course: Disaster Management and Mitigation

Semester: V

Duration: 3 hrs.

Max Marks: 100

Date: 25.09.2023

Instructions:

1. Answer 5 full questions choosing one full question from Units 2 and 3
2. Answer all parts of the questions together

UNIT - I

- 1 a) Define the terms Disaster, Hazard, Risk, Vulnerability and Resilience **05**
- b) Disaster vulnerability is caused by different factors. Explain the different types of vulnerability based on the causative factors. **07**
- c) Discuss the key objectives on which an ideal disaster management plan should be focused on. **08**

UNIT - II

- 2 a) The world is facing greatest social, economical and environmental challenges due to COVID-19 pandemic. Evaluate the efforts taken by the Govt. India to manage the pandemic. **10**
- b) Explain the Graded Response Action Plan developed by the Delhi Government to manage the severe air pollution. **10**

OR

- 3 Consider your college as a case study area.
- a) Identify any two potential hazards on the campus and list their characteristics. **08**
- b) List the resources currently available in the campus to manage the hazard. **05**
- c) Suggest the appropriate plans to improve the hazard preparedness in the campus. **07**

UNIT - III

- 4 a) Compare the benefits and drawbacks of print media, broadcast media and internet based media for disaster management. **10**
- b) Discuss the role of NDMA and National Executive Committee in disaster management. **10**

OR

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

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| 5 | a) Distinguish between evacuation and migration. | 05 |
| | b) List the objectives of an ideal disaster response plan. | 07 |
| | c) Explain the components of the Disaster Management Cycle. | 08 |

UNIT - IV

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| 6 | a) Discuss the disaster profile of India. | 10 |
| | b) A paradigm shift in the disaster management approach was initiated by the Disaster Management Act. Justify the same stating the salient features of the act. | 10 |

UNIT - V

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| 7 | a) Even with a scientific disaster management policy and a well-structured institutional arrangement, various disasters continue to cause damage to properties, lives and livelihood with devastating impact. In this context identify the major challenges in disaster management. | 10 |
| | b) Discuss how climate change is likely to aggravate the disaster risks. | 10 |
